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Applicant : Alexander Vainstein, et al.

Art Unit : ~~Unknown~~ 1638

Serial No. : 09/914,146

Examiner : ~~Unknown~~ Helmer

Filed : August 22, 2001

Title : TRANSGENIC PLANTS AND METHOD FOR TRANSFORMING
CARNATIONS

Commissioner for Patents
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Applicants submit the documents listed on the attached form PTO-1449, a copy of which is enclosed. A copy of the International Search Report in the counterpart Israeli application no. PCT/IL 00/00110 is also enclosed.

This statement is being filed before receipt of a first Office action.

Please apply any charges to Deposit Account No. 06-1050, referencing 13687-002001.

Respectfully submitted,

Date: 4-10-02

Y. Rocky Tsao
Y. Rocky Tsao
Reg. No. 34,053

Fish & Richardson P.C.
225 Franklin Street
Boston, Massachusetts 02110-2804
Telephone: (617) 542-5070
Facsimile: (617) 542-8906

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CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is added to the Commissioner for Patents, Washington, D.C. 20231.

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Signature Deborah R. Nast

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| Substitute Form PTO-1449 (Modified) | U.S. Department of Commerce Patent and Trademark Office | Attorney's Docket No. 13687-002001 | Application No. 09/914,146 |
| Information Disclosure Statement by Applicant (Use several sheets if necessary) | | Applicant Alexander Vainstein, et al. | |
| | | Filing Date August 22, 2001 | Group Art Unit |

| U.S. Patent Documents | | | | | | | |
|-----------------------|-----------|---------------|------------|----------|-------|----------|----------------------------|
| Examiner Initial | Desig. ID | Patent Number | Issue Date | Patentee | Class | Subclass | Filing Date If Appropriate |
| | AA | | | | | | |

| Foreign Patent Documents or Published Foreign Patent Applications | | | | | | | | |
|---|-----------|-----------------|------------------|--------------------------|-------|----------|-------------|----|
| Examiner Initial | Desig. ID | Document Number | Publication Date | Country or Patent Office | Class | Subclass | Translation | |
| | | | | | | | Yes | No |
| | AB | WO 92/17056 | Oct. 15, 1992 | WIPO | | | | |
| | AC | WO 96/39827 | Dec. 19, 1996 | WIPO | | | | |
| | AD | WO 96/20595 | Jul. 11, 1996 | WIPO | | | | |
| | AE | WO 97/35471 | Oct. 2, 1997 | WIPO | | | | |
| | AF | WO 96/36716 | Nov. 21, 1996 | WIPO | | | | |
| | AG | WO 94/28140 | Dec. 8, 1994 | WIPO | | | | |
| | AH | WO 95/06741 | Mar. 9, 1995 | WIPO | | | | |
| | AI | EP 0 486 233 | May 20, 1992 | EPO | | | | |
| | AJ | WO 93/18142 | Sept. 16, 1993 | WIPO | | | | |
| | AK | WO 97/15584 | May 1, 1997 | WIPO | | | | |
| | AL | WO 98/50570 | Nov. 12, 1998 | WIPO | | | | |
| | AM | WO 97/21816 | Jun. 19, 1997 | WIPO | | | | |
| | AN | WO 99/37794 | Jul. 29, 1999 | WIPO | | | | |

| Other Documents (include Author, Title, Date, and Place of Publication) | | |
|---|-----------|--|
| Examiner Initial | Desig. ID | Document |
| | AO | M. Ovadis, et al. <i>A highly efficient procedure for generating carnation plants with novel traits.</i> Proceedings of the Nineteenth International Symposium on Improvement of Ornamental Plants. Breeding Ornamentals in the Future: Goals, Genes, Tools, Angers, France, 27-30 July, 1998. ACTA Horticulture (2000) 508:49-51. |
| | AP | M. Ovadis, et al. <i>Generation of transgenic carnation plants with novel characteristics by combining microprojectile bombardment with Agrobacterium tumefaciens transformation.</i> Current Plant Science and Biotechnology in Agriculture 36:189-192. |
| | AQ | A. Zuker, et al. <i>A highly efficient method for carnation transformation.</i> ACTA Horticulture (1997) 447:373-375. |
| | AR | E. Firoozabady, et al. <i>Efficient transformation and regeneration of carnation cultivars using Agrobacterium.</i> Molecular Breeding (1995) 1:283-293. |

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| Examiner Signature | Date Considered |
| EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | |

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| Substitute Form PTO-1449 (Modified) | U.S. Department of Commerce Patent and Trademark Office | Attorney's Docket No. 13687-002001 | Application No. 09/914,146 |
| Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR § 1.88(b)) | | Applicant Alexander Vainstein, et al. | |
| | | Filing Date August 22, 2001 | Group Art Unit |

Other Documents (include Author, Title, Date, and Place of Publication)

| Examiner Initial | Desig. ID | Document |
|------------------|-----------|---|
| . | AS | Tanaka Toshikazu, et al. <i>Metabolic engineering to modify flower color</i> . Plant and Cell Physiology 39(11):1119-1126. |
| ? | AT | J. Dedio, et al. <i>Molecular cloning of the flavanone 3-beta-hydroxylase gene (FHT) from carnation (dianthus caryophyllus) and analysis of stable and unstable FHT mutants</i> . Theoretical and Applied Genetics, 90(5):611-617, 1995. |
| . | AU | L. Britsch, et al. <i>Molecular characterization of flavone-3'-beta'-hydroxylases</i> . European Journal of Biochemistry, Oct. 1993, 217(2):745-754. |
| -. | AV | Neal Gutterson. <i>Anthocyanin biosynthetic genes and their application to flower color modification through sense suppression</i> . Hortscience 30(5):964-966, 1995. |
| . | AW | Amir Zuker, et al. <i>Wounding by bombardment yields highly efficient Agrobacterium-mediated transformation of carnation (Dianthus caryophyllus L.)</i> . Molecular Breeding, 5(4):367-375, 1999. |
| . | AX | Amir Zuker, et al. <i>Transformation of carnation by microprojectile bombardment</i> . Scientia Horticulturae (Amsterdam), 64(3):177-185, 1985. |
| \ | AY | Abed Watad, et al. <i>Adventitious shoot formation from carnation stem segments: A comparison of different culture procedures</i> . Scientia Horticulture (Amsterdam) 65(4):313-320, 1996. |
| . | AZ | A. Zuker, et al. <i>Genetic engineering for cut-flower improvement</i> . Biotechnology Advances 16(1):33-79, 1998. |
| . | AAA | A. Pellegrineschi, et al. <i>Improvement of ornamental characters and fragrance production in lemon-scented geranium through genetic transformation by agrobacterium rhizogenes</i> . Bio/Technology U.S., 12(1):64-68, 1994. |
| - | ABB | Zuker, et al. <i>Application of an integrative system based on microprojectile bombardment and agrobacterium tumefaciens to generate transgenic carnation plants with novel characteristics</i> . First International Congress On Plant Tissue and Cell Culture, Jerusalem, Israel, 1998 |
| . | ACC | XP-000921439 Ovadis, et al. <i>Generation of Transgenic Carnation Plants with Novel Characteristics by combining microprojectile bombardment with agrobacterium tumefaciens transformation</i> . Plant Biotechnology and In Vitro Biology in the 21 st Century, pp. 189-192, 1999. |
| . | ADD | XP-000921438 Zuker, et al. <i>A highly efficient method for carnation transformation</i> . |
| . | AEE | XP-002140940 Firoozabady, et al. <i>Efficient transformation and regeneration of carnation cultivars using Agrobacterium</i> . |
| ✓ | AFF | XP-002140941 Zuker, et al. <i>Wounding by bombardment yields highly efficient Agrobacterium-mediated transformation of carnation (Dianthus caryophyllus L.)</i> . |

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| Examiner Signature | Date Considered |
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